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CATHODE RAY TUBE AND METHOD OF DISPLAYING PICTURE

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BACKGROUND OF THE INVENTION

JUL 1 4 2004

1. Field of the Invention

Technology Center 2600

The invention relates to a cathode ray tube, which displays a main picture in a single color, and a method of displaying pictures.

2. Description of the Related Art

In recent years, a number of picture display devices capable of displaying a color picture have been developed. Devices displaying a picture in monochrome (single color), such as what are called monochrome display devices, also have been in demand and have been developed. For example, in the field of front-door intercoms, color picture displays using liquid crystal display devices are of use. However, monochrome display devices using a flat type cathode ray tube (flat CRT) with relatively low costs also are often in use, since color liquid crystal display devices have relatively high costs.

A flat CRT has a configuration in which electron guns and a fluorescent screen are provided on the same plane, and electron beams are emitted obliquely on the fluorescent screen, unlike a straight-type CRT in which electron beams are emitted from the electron guns vertically to the center of the fluorescent screen. A straight-type CRT is capable of color picture display by discriminating three electron beams producing red (R), green (G) and blue (B) through a color selection mechanism and by emitting the electron beams on a fluorescent screen comprising three kinds of phosphor emitting in red, blue and green. A flat CRT for displaying a monochrome picture displays a